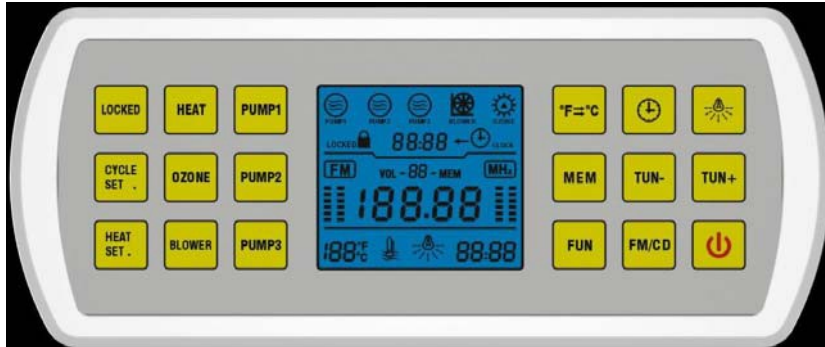


Operating Instructions



On/Off



Select the ON/OFF button to switch your hot tub on, and press again to return back your hot tub back to standby .mode.

Operation of Water Pumps

There are three buttons to control the water pumps, the water level must be of a certain level before they operate. Pressing any of the 3 pumps buttons will switch on the pump and the associated pump icon will appear on the display, pressing the pump button again will switch off the pump

Pump 1	Pump 2 (if fitted)	Pump 3 (Circulation pump)
		

If the water level is not sufficient when operating any of the pumps, then the appropriate pump icon will flash.

Ozone



This runs the ozone generator. When running the Ozone icon will appear in the display. To switch off just press the ozone button once more. NB: Ozone sterilisation will switch off automatically after 10 minutes.

Blower



This button operates the air blower (if fitted). The blower will only run when the water level has been detected to be over the required level. When running the blower icon will appear in the display. To turn off just press the blower button again. If there is not sufficient water in the hot tub, the blower icon will flash.

Light



To operate the hot tub light press this button, when pressed the lightbulb symbol will appear on the display. To switch off the light press the light button again. If your hot tub is fitted with the

perimeter LED light option, this button will also operate the perimeter lights. To change the setting/colour of the light, switch the lights off, then back on and this will cycle through the different colours and settings available.

Warning: *If you hot tub is fitted with perimeter LED lights, some of the lighting options are not suitable for people with photosensitive epilepsy. A very small percentage of individuals may experience epileptic seizures when exposed to certain light patterns or flashing lights. Certain conditions may induce previously undetected epileptic symptoms even in persons who have no history of prior seizures or epilepsy.*



This alternates the temperature display between Fahrenheit and centigrade.

Locking/Unlocking you tub



This button will operate the panel lock, so none of the other buttons can accidentally be pressed. To lock your hot tub press the LOCKED button, the padlock icon will display in the control panel and this will lock the controls from accidentally being pressed, to unlock your hot tub press and hold the LOCKED button until the controls are released. NB: If no activity is reported on the control panel for 30 minutes the panel will automatically lock.

Setting the Clock



To set the clock on your hot tub press the CLOCK button, the time display will now flash, press TUN- to adjust the hour and press TUN+ to adjust the minutes. Once set leave the control panel for a short time for it to let the time display stop flashing, the time is now set.

Setting the Heat

Your hot tub is thermostatically controlled. There must be sufficient water in the hot tub for the heating and filtering to work correctly



To heat your hot tub press the HEAT button to turn on the heating. The heater icon will start flashing and Pump 3 will first start running and display and also the Pump 3 icon. This pump must be running during heating to circulate the water through the hot tub. After 10 seconds the heat icon will stop flashing on the display indicator the heating has started. Pressing the Heat button again will switch off the heater and the circulation pump will stop running 10 seconds after. NB: if you press Pump 3 whilst the hot tub is heating, this will override the automatic feature, so when the temperature reaches temperature, the heating will stop, but the circulation pump will continue to operate.


To adjust the temperature of your hot tub press the FUN button, the temperature display will now flash. Use the TUN- and TUN+ buttons to adjust the heat. The default temperature is 37c (99f) (temperature range is from 30c to 42c/86f – 108f). Once the hot tub has reached the required temperature the heating will automatically shut down until the temperature drops below the preset temperature, at that point, heating will automatically restart.

Freeze Protection

If it is detected that the water temperature drops below 5c the heating will automatically be turned on until the water temperature reaches 9c.

Setting the Pre Heat Cycle


This function allows for the heating cycle to be switched on at a predetermined time.

 Press the HEAT SET button (when your hot tub is in standby mode). "H ON" Will be displayed. The time will flash, adjust this using the TUN- and TUN+ buttons to set the time you wish the hot tub to heat from. Then press the FUN button, you can now set the duration you wish the hot tub to heat for using the TUN- and TUN+ from 10 minutes to 23 hours and 59 minutes. Finally press the FUN button again to set the temperature you wish the hot tub to heat to. Leaving the panel for a short time and the display will return to standby and heater icon will flash.

To switch the heat cycle off, press the HEAT SET button again and "H OFF" will display.

Setting the Filtration Cycle


This function allows the water filtration cycle to operate automatically; you can set what time and the duration you wish the hot tub to cycle for.

 Press the CYCLE SET button (when the hot tub is in standby mode). The panel will display "C ON" indicating that filtration cycle has been switch on. The time will flash to allow you to enter what time you wish the cycle to start; adjust this using the TUN- and TUN+ buttons to set the time. Then press the FUN button, you can now set the duration you wish the hot tub to cycle for up to 30 minutes using the TUN- and TUN+ buttons to increase and decrease the minutes. Pressing the Ozone button will also select whether you wish the ozone sterilisation to run during the filtration cycle. To switch the filtration cycle off, press the CYCLE SET button again. Leaving the panel for a short time and the display will return to standby and Pump 3 icon will flash.

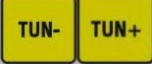
To switch off the filtration cycle, when the hot tub is in standby mode, press the CYCLE SET button and "C OFF" will be displayed. If filtration cycle is off then the filtration will automatically run every 6 hours , if ozone if fitted then this will operate also.

Radio/CD Operation

Your hot tub has a FM radio and auxiliary CD/MP3 control built into the control panel.

 The FM/CD button controls the Radio and CD functions, pressing the FM/CD button with cycle through the FM radio > CD input > Off

Tuning the radio

 Use the TUN+ and TUN- buttons to tune the radio to the desired frequency.

Volume

Press the FUN button, and the volume value in the display will flash. Then use the TUN+ and TUN- to adjust the volume.

Selecting a Preset Radio Station



Press the MEM button to cycle through the preset radio frequencies

Storing Radio Channels in Memory

Once the desired frequency has been tuned, press and hold the MEM button for 2 seconds until a beep is heard and the memory preset number flashes. Press MEM to cycle through the preset buttons until the required preset number is displayed. Then press and hold the MEM button again to store the frequency, a beep will be heard and the station is now set.

Operation of Remote Control

1. Any functional button of the system works with a "beep" sound accompanied by the buzzer.
2. The functional buttons on the remote controller have the same operation methods with the corresponding functional buttons on the button panel.

Specifications

- 1) Rated voltage: AC220V
- 2) Working voltage range: AC180V~AC248V
- 3) Rated power: 50Hz
- 4) Controllable current: <55A
- 5) Power consumption: <10W (all loads OFF)
- 6) Applied ambient temperature: +5°C ~ +40°C
- 7) Sensitivity to the noise limit of the radio: 20 dB μ V
- 8) Step-down transformer meeting the requirements of 1500V high voltage test as specified by IEC standard

Controlled devices

- 1) Water pump: AC220V/3HP
- 2) Air blower: AC220V/1.25HP
- 3) Thermostatic heater 1: AC220V/3KW-5KW
- 4) Ozone: AC12V/15W
- 5).Underwater lamp : AC12V/20W

Precautions for Installation and Use

In order to guarantee the products function, prolong its lifetime and ensure the safety during using, please read the following items carefully before using:

1. The power cable cannot be used until it is checked carefully and and quality is confirmed.
2. The end user should not connect unqualified electrical appliances to the controller. Disassembling or modifying any connectors in the controller is prohibited.
3. The connection wire of power box should be wired according to the specification.
4. The installation of the hot tub should be carried out by qualified personal according to the installation manual.
5. Do not try to repair or modify parts of the controller, the high-voltage might cause danger. All the maintenance and repairing should be carried our by qualified personal.

Special Statements

1. The product must be repaired by the manufacturer of the controller or qualified servicemen authorized by its agents if necessary otherwise the product is not allowed to be warranted and all loss caused thereof are not assumed by our company.
2. The instruction manual is only for reference and all designs and descriptions included herein are subject to change and update without prior notice. The manufacturer has the sole right to interpret any ambiguity, error or missing in the instruction manual if existed.

For any consequences caused by wrong operation, the user should bear the responsibility.

Programming the Control System

To Change Program

To switch between programs:-

Press the following buttons in sequence "HEAT" - "PUMP1" - "PUMP2" - "BLOWER" - "PUMP3". The control panel will show "1", "2" or "3", you can cycle through. "1" = Program A, "2" = Program B and "3" = Program C.

Details of Programs

Program A: water pump 1, water pump 2, water pump 3, air pump and heater can all operate at the same time.

Program B: water pump 1, water pump 2 and air pump can turn on at the same time. But when water pump 1, water pump 2 or air pump is turned on, water pump 3 cannot run. But when the heater is turned on, the water pump 1, water pump 2, water pump 3 and air pump switch off.

Program C: water pump 1, water pump 2, water pump 3, air pump and heater can run at the same time. When the heater is turned on, water pump 1, water pump 2, water pump 3 and air pump switch off.